SAMSUNG

SUBMITTAL AJ018TNNDCH/AA (JNH18NDT)
Samsung FJM Series, Wind-Free™ Mini 4-Way Cassette

Job Name _____ Location _____
Purchaser _____ Engineer _____
Submitted to _____ Reference ☐ Approval ☐ Construction ☐
Unit Designation _____ Schedule # _____

Specifications

Model	US Code		JNH18NDT
	Model Number		AJ018TNNDCH/AA
Performance	Nominal Capacity	Cooling (Btu/h)	17,700
		Heating (Btu/h)	19,100
Power	Voltage (ø/V/Hz)		1 / 208-230 / 60
	Nominal Running Current (A)		0.53
Fan	Type		Turbo (1)
	Motor	Type	BLDC (1)
		FLA / Output	0.17A / 65 W
Airflow	CFM	L/M/H	261 / 318 / 371
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve (at outdoor unit)
Piping Connections	Liquid (flare)	Inches	1/4
	Suction (flare)	Inches	1/2
	Drain	Inches	OD 1 1/4, ID 1
Unit Dimensions	W X H X D	Inches	22 5/8 X 10 X 22 5/8
	Weight	lbs.	26.00
Fascia Panel [1] (required)	Model Number (Wind-Free™)		PC4SUFMUN
	L X W X H	Inches	24 3/8 X 24 3/8 X 2 1/4
	Weight	lbs.	5.95
	Model Number (Standard)		PC4SUSMUN
	L X W X H	Inches	24 3/8 X 24 3/8 X 2 3/16
	Weight	lbs.	5.07
Sound Level	L / M / H	dB(A)	32 / 36 / 39
Accessories	Fascia Panel	Wind-Free™	☐ PC4SUFMUN
		Standard	☐ PC4SUSMUN
	Wired Controllers	Advanced	☐ MWR-WG00UN
		Simple Touch	☐ MWR-SH11UN
	Wireless Remote Controller		☐ AR-EH04U
	24VAC Thermostat Adapter		☐ MIM-A60UN
	Motion Occupancy Sensor		☐ MCR-SMD
	Wi-Fi Adapter For Remote Control[2]		☐ MIM-H04UN
	External Temperature Sensor		☐ MRW-TA
	External Contact Control Interface Module		☐ MIM-B14
	CN83 Pigtail		☐ DB39-01263A
	Line sets - insulated and flared, interconnect cables included		☐ 25' - ILS2507
			☐ 50' - ILS5007
Safety Certifications			ETL (UL 1995)

Nominal cooling capacities are based on: Indoor temperature: 80 °F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.
Nominal heating capacities are based on: Indoor temperature: 70 °F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.
Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.

*The Wind-Free™ unit delivers an air current that is under 0.15 m/s while in Wind Free mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers).

[1]PC4SUFMUN fascia panel is required to use Wind-Free™ functions. Optional controls are required to enable Wind-Free™ functions. Fascia panels must be purchased separately.

[2]MIM-H04UN is only required for remote control of cassette, console, and duct indoor units. Only one per system is required.



- The indoor unit shall feature "Wind-Free™" mode*. When enabled, in cooling mode, as room temperature nears set temperature, the unit will close its louvers and will disperse air into the space through thousands of micro-holes on the fascia panel preventing cold air drafts on occupants by providing cool still air*.
- The Wind-Free™ 4-way cassette can be configured for 2-stage operation, cooling the space with the louver open (fixed or swing) until the room temperature nears set temperature. Once room temperature is near set temperature, Wind-Free™ operation will start automatically.
- The Wind-Free™ panel (PC4SUFMUN) has an integral humidity sensor that will open the louvers for standard cool mode when space conditions could potentially cause condensation formation on the panel surface.
- Electro-static, washable, pleated filters as standard (included with fascia panel)
- Built in condensate pump with maximum 29" lift from the bottom of the unit, check valve, and float switch that disables indoor unit during overflow detection.
- Knock-out for outside air capability (with booster fan connection)
- Fascia panel shall have LED indicator lights, IR receiver, and 4 motorized louvers with independent control.
- High-voltage terminal block temperature sensor to disable unit in the event overheating of power connection.
- The indoor unit shall be powered by the outdoor unit
- System energy consumption can be viewed using the Samsung SmartThings mobile app (not revenue grade, for reference only)

Construction
Galvanized steel frame with HIPS chassis and fascia panel certified to UL94 V0.

Heat Exchanger
The heat exchanger shall be mechanically bonded fin to copper tube

Indoor Fan
Indoor fan is a single turbo type with three fan speeds and auto setting

Controls
Control signal shall be a DDC type signal

Interconnect control wire between outdoor and indoor shall be 16AWG X 2

Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller.

The system shall integrate with the Samsung Controls Solution.

Compatibility
Will only operate with Samsung outdoor unit model numbers: AJ024TXJ3CH/AA (JXH24J3T), AJ036TXJ4CH/AA (JXH36J4T), AJ048TXJ5CH/AA (JXH48J5T), AJ024TXS4CH/AA (JXH24S4T), AJ030TXS4CH/AA (JXH30S4T), AJ036TXS4CH/AA (JXH36S4T)

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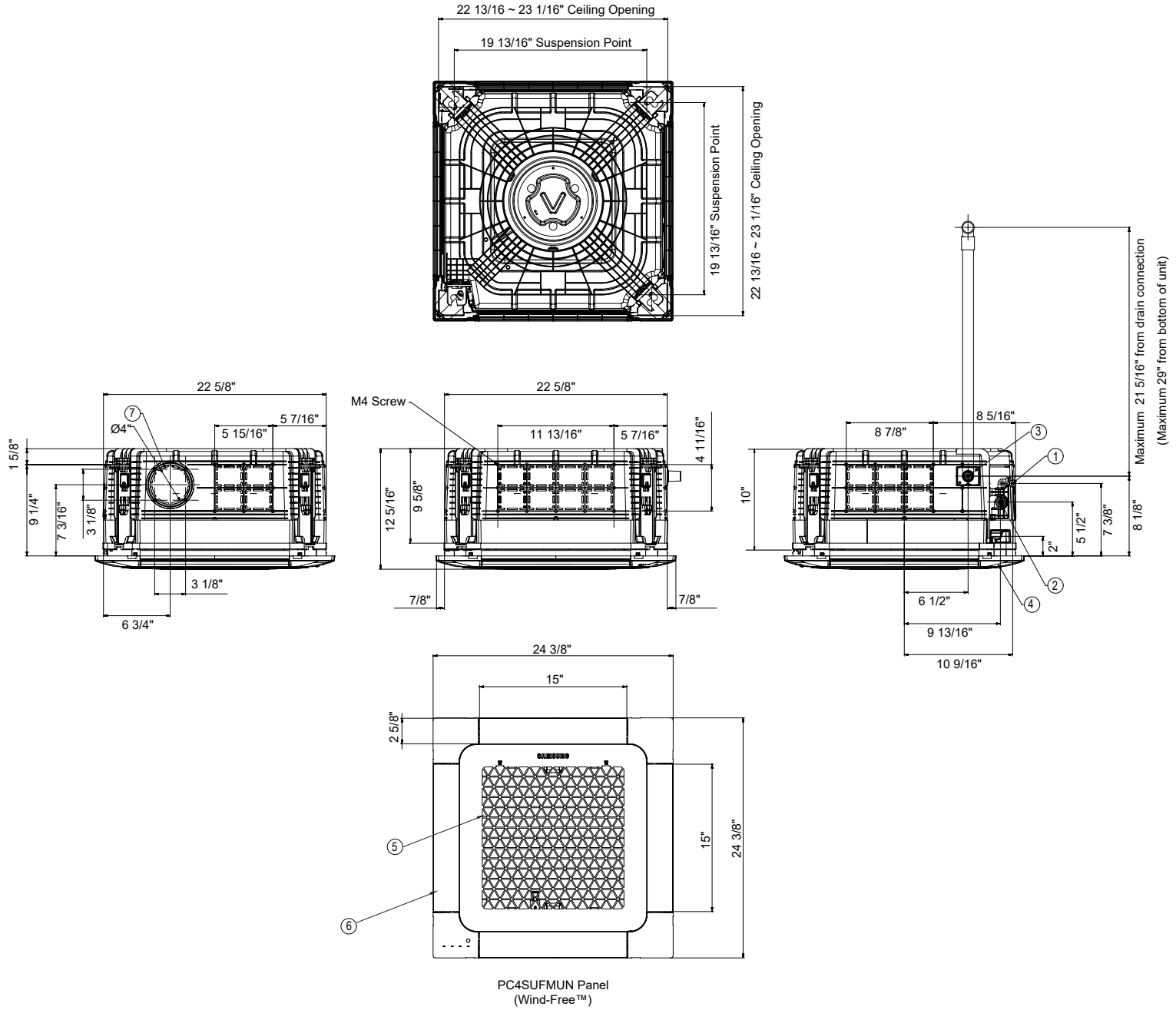
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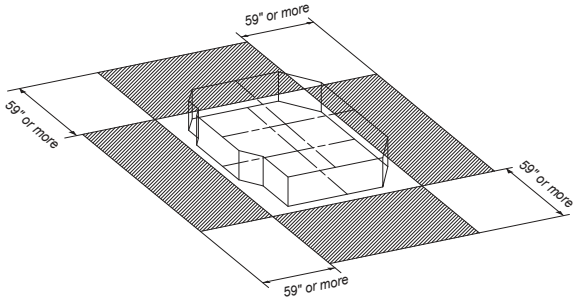
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PC4SUFMUN Panel
(Wind-Free™)



Sufficient clearance must be maintained around unit for proper operation.

No.	Description
1	Liquid pipe connection
2	Suction pipe connection
3	Drain connection
4	Opening for power and communication wire conduit
5	Air inlet grille
6	Supply air outlet louver
7	Fresh air intake (Ø 4")